WTC1-709-P

Cheri Sawyer

From: Bhol, Saroj [sbhol@panynj.gov]
Sent: Friday, January 23, 2004 1:59 PM
To: 'Shyam Sunder'
Cc: 'rgann@nist.gov'; 'cauffman@nist.gov'; Begley, James; Fadavi, Ali; Lin, C. John; Lombardi, Frank; 'cheri.sawyer@nist.gov'
Subject: RE: glass

Shyam,

PA does not have the specification for the glass for the towers. Here's the information I have gathered from people who were familiar with the construction:

- PPG did the glass in the original construction. It was the same thickness in the tower windows except for the lobbies. Schuldiner did all the glass work in WTC 1 & 2 after 93 bombing.

Window frame assembly details would have been typically shown in shop drawings. Since WTC 7 was a tenant construction, shop drawings were not submitted to PA. Silverstein may be able to assist you on window frame assembly and glass specification for WTC 7

Thanks

Saroj

-----Original Message-----
From: Shyam Sunder [mailto:sunder@nist.gov]
Sent: Thursday, January 22, 2004 11:44 AM
To: Bhol, Saroj
Cc: rgann@nist.gov; cauffman@nist.gov; cheri.sawyer@nist.gov; john.eichner@nist.gov
Subject: Fwd: glass

Saroj,

Could you please assist with this inquiry? Thanks.

Shyam

==========

X-Sieve: CMU Sieve 2.2
X-Sender: rggann@email.nist.gov
X-Mailer: QUALCOMM Windows Eudora Version 5.0
Date: Thu, 22 Jan 2004 09:37:02 -0500
To: sunder@nist.gov
From: "Richard G. Gann" <rggann@nist.gov>
Subject: glass
Cc: wpitts@nist.gov, henelson@nist.gov

Shyam,

The window glass, its framing, and its breakage are appearing more and more important.

- In the "worst case" fire, the limited air availability leads to a relatively small fire unless windows break.
- We're using the breakage of windows in the photos as a telltale for the intensity of the fires.

We have a drawing of the window frame assembly for the towers. We need a similar drawing for WTC 7. We have not yet been able to locate any description, of preferably specification, of the glass for any of the three buildings. [It's not clear whether the glass might have changed as a function of height of the window.]

Please e-mail the PA or Silverstein asking them to supply the information. Documents are preferable. If they don't exist any more, then a detailed verbal description will have to do.

Thanks,

Dick

Richard G. Gann, Ph.D.
Senior Research Scientist
Building and Fire Research Laboratory
National Institute of Standards and Technology
Building 224, Room A-261
100 Bureau Drive, Stop 8664
Gaithersburg, MD 20899-8664
Phone: (301) 975-6866
Fax: (301) 975-3652 or 4052
E-mail: rggann@nist.gov
www.bfrl.nist.gov

Confidential and Pre-decisional Document

Dr. S. Shyam Sunder
Chief, Materials and Construction Research Division
Building and Fire Research Laboratory
National Institute of Standards and Technology
100 Bureau Drive Stop 8610 (Building 226, Room B 256)
Gaithersburg, MD 20899-8610
Tel.: 301-975-6061/6713
Fax: 301-975-6122